

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P562782

Luminaire Tested: **SQ4-PC3-075U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562782  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

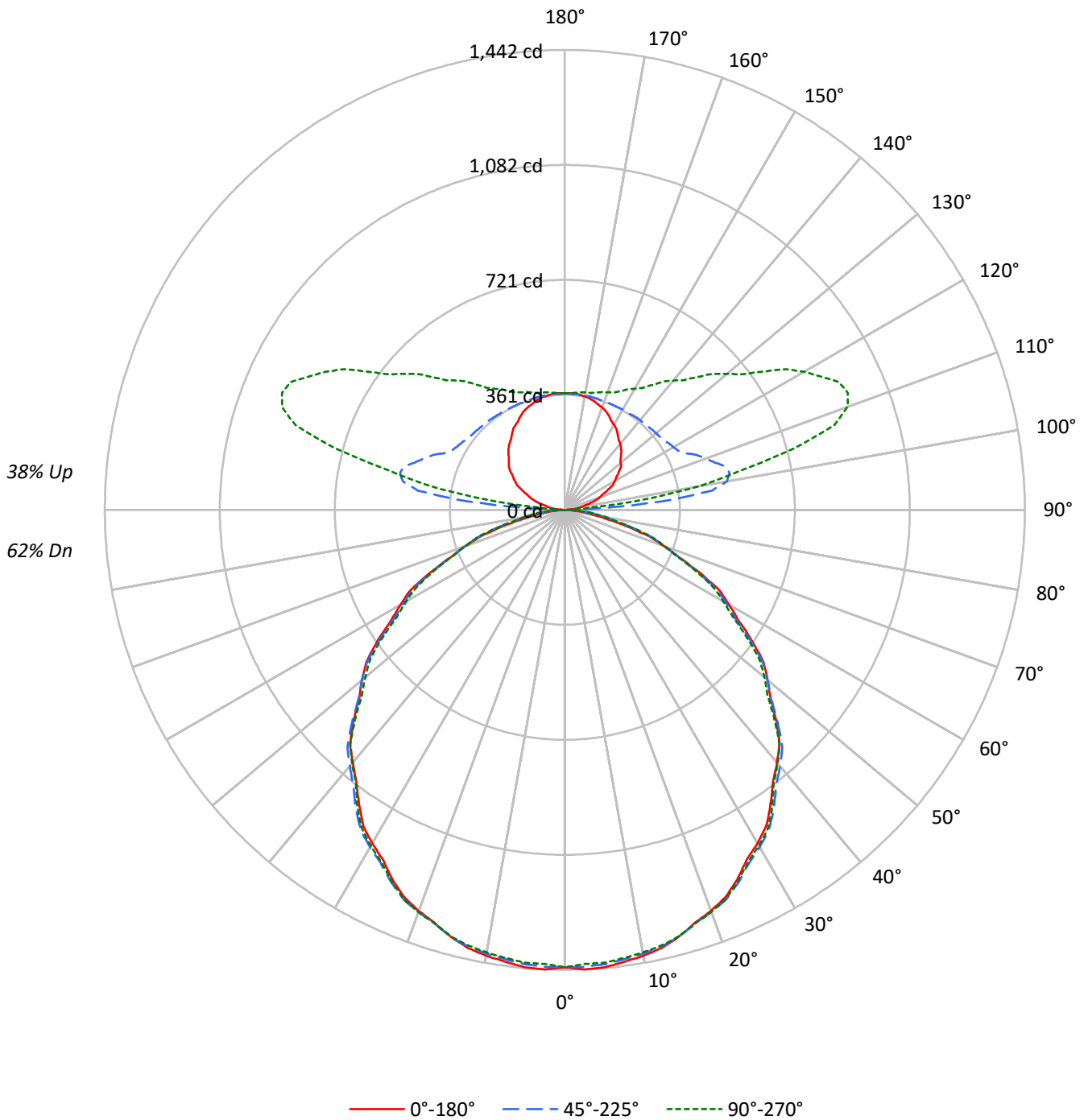
Lumens per Lamp: N/A  
Luminaire Lumens: 6296.9 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13236	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12859	13014	12957
35°	12666	12861	12771
40°	12457	12633	12505
45°	12231	12318	12127
50°	11912	11912	11721
55°	11533	11384	11213
60°	10975	10756	10584
65°	10145	9942	9855
70°	8883	8953	8918
75°	7147	7903	7953
80°	5079	6700	6774
85°	3091	5621	5621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.7	2.2
10°-20°	389.5	6.2
20°-30°	589.8	9.4
30°-40°	707.1	11.2
40°-50°	721.0	11.4
50°-60°	629.4	10.0
60°-70°	450.5	7.2
70°-80°	232.1	3.7
80°-90°	59.6	0.9
90°-100°	172.5	2.7
100°-110°	474.5	7.5
110°-120°	489.8	7.8
120°-130°	392.4	6.2
130°-140°	308.2	4.9
140°-150°	236.2	3.8
150°-160°	169.8	2.7
160°-170°	103.8	1.6
170°-180°	35.0	0.6
0°-30°	1115.0	17.7
0°-40°	1822.0	28.9
0°-60°	3172.3	50.4
0°-90°	3914.6	62.2
90°-120°	1136.8	18.1
90°-150°	2073.6	32.9
90°-180°	2382.0	37.8
0°-180°	6296.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1439	1425	1430	1426	1425	137
15°	1385	1373	1385	1385	1384	390
25°	1279	1270	1288	1284	1284	588
35°	1125	1122	1142	1134	1134	703
45°	937	935	944	932	929	722
55°	717	708	708	697	697	639
65°	465	454	455	451	451	460
75°	200	210	222	223	223	217
85°	29	45	53	54	53	40
90°	1	3	5	7	7	3
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1442.5	1430.0	1434.0	1430.7	1425.5
5°	1439.3	1425.0	1430.0	1426.0	1424.7
7.5°	1429.0	1414.7	1421.3	1418.6	1417.3
10°	1419.4	1405.1	1412.8	1410.1	1408.8
12.5°	1406.6	1393.4	1402.1	1399.5	1399.2
15°	1384.9	1373.2	1384.9	1384.8	1383.5
17.5°	1357.5	1346.9	1359.4	1360.2	1359.4
20°	1338.4	1326.7	1342.4	1341.1	1342.4
22.5°	1315.0	1305.4	1322.2	1318.8	1320.1
25°	1278.7	1269.6	1287.9	1284.0	1284.0
27.5°	1235.6	1229.1	1249.2	1244.9	1244.9
30°	1207.0	1200.5	1221.6	1216.2	1216.2
32.5°	1175.1	1170.7	1190.8	1184.4	1184.4
35°	1124.6	1122.0	1141.9	1133.9	1133.9
37.5°	1072.6	1070.2	1088.2	1078.6	1075.5
40°	1034.3	1033.0	1048.9	1038.3	1038.3
42.5°	996.1	994.8	1008.6	995.8	995.8
45°	937.4	934.8	944.1	932.0	929.4
47.5°	873.4	870.8	876.6	863.6	862.3
50°	829.9	827.3	829.9	817.9	816.6
52.5°	785.2	780.6	781.0	769.0	768.8
55°	717.0	707.9	707.7	697.1	697.1
57.5°	644.8	632.8	633.9	624.8	623.5
60°	594.8	581.9	582.9	574.9	573.6
62.5°	546.0	530.9	534.0	525.0	524.7
65°	464.7	454.3	455.4	451.4	451.4
67.5°	386.6	377.0	384.0	380.8	380.5
70°	329.3	322.8	331.9	331.9	330.6
72.5°	276.2	275.9	287.3	287.3	288.1
75°	200.5	209.6	221.7	223.1	223.1
77.5°	133.8	149.9	163.3	163.8	163.6
80°	95.6	113.8	126.1	128.8	127.5
82.5°	64.8	84.0	94.3	96.9	95.6
85°	29.2	44.8	53.1	54.4	53.1
87.5°	8.7	18.5	22.3	22.6	20.5
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)